EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	7	(organiz$5 with (class$2 or cluster$3 or aggregat$3 or categor$3 or group$3) with user with configur$5).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:13
L2	200	(organiz$5 with (class$2 or cluster$3 or aggregat$3 or categor$3 or group$3) with user with configur$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:19
L3	24	2 and @ad<"20000607"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:16
L4	1	1 and @ad<"20000607"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:23
L5	10965	(preference or knowledge or recommend$5) with (cluster$3 or class$2 or categor$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:55
L6	1473	(preference or knowledge or recommend$5)near (cluster$3 or class$2 or categor$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:22
L7	1473	(preference or knowledge or recommend$5) near (cluster$3 or class$2 or categor$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:18
L8	0	3 and 7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:18

EAST Search History

L9	406683	((class$2 or cluster$3 or aggregat$3 or categor$3 or group$3) with (structur$3 or hierarch$3 or tree))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:20
L10	4406	((class$2 or cluster$3 or aggregat$3 or categor$3 or group$3) with (user with configur$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:20
L11	1231	9 and 10	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:20
L12	2	11 and (cluster$3 near system).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:32
L13	24	(user with (preference or knowledge or recommend$5) near (cluster$3 or class$2 or categor$3)) and (cluster$3 with system).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:25
L14	9	13 and @ad<"20000607"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:29
L15	56	(user with (preference or knowledge or recommend$5) with (cluster$3 or class$2 or categor$3)) and (cluster$3 with system).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:33
L16	18	15 and @ad<"20000607"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:26

EAST Search History

L17	165	(user with (preference or knowledge or recommend$5) with (cluster$3 or class$2 or categor$3)).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:31
L18	137	(user with (preference or knowledge or recommend$5) with (cluster$3 or class$2 or categor$3) with (structur$3 or tree or hierarch$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:29
L19	16	17 and 18	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:29
L20	6	19 and @ad<"20000607"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:32
L21	64	(cluster$3 or class$2 or categor$3) with vigilance	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:33
L22	1	21 and (cluster$3 near system).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:32
L23	1	21 and (cluster$3 with system).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:32
L24	46	21 and @ad<"20000607"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:55

EAST Search History

L25	0	24 and 15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:33
L26	1	(user with (preference or knowledge or recommend$5) with (cluster$3 or class$2 or categor$3)) and (cluster$3 with system) and 24	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:44
L27	999	(cluster$3 or class$2 or categor$3) with (structur$3 or tree or hierarch$3) with (knowledge or recommend$4 or preference)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:34
L28	27250	27 an 15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:35
L29	13	27 and 15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:35
L30	3	29 and @ad<"20000607"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:35
L31	3	(predict$3 with (cluster$3 or class$2 or categor$3)) and (cluster$3 with system) and 24	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:41
L32	2	("5911140").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:41

EAST Search History

L33	1	(user with (preference or knowledge or recommend$5 or interest$3) with (cluster$3 or class$2 or categor$3)) and (cluster$3 with system) and 24	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:44
L34	1	((preference or knowledge or recommend$5 or interest$3) with (cluster$3 or class$2 or categor$3)) and (cluster$3 with system) and 24	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:45
L35	2223	((preference or knowledge or recommend$5 or interest$3) with (cluster$3 or class$2 or categor$3)) and (cluster$3 with system)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:54
L36	215	((preference or knowledge or recommend$5 or interest$3) with (cluster$3 or class$2 or categor$3)) and (cluster$3 with system) with (chang$3 or modif$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:47
L37	1	26 and 21	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:47
L38	1	36 and 21	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:47
L39	756	((preference or knowledge or recommend$5 or interest$3) with (cluster$3 or class$2 or categor$3)) with (scor$3 or rank$3 or degree)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:54
L40	367	((preference or knowledge or recommend$5 or interest$3) with (cluster$3 or class$2) with (scor$3 or rank$3 or degree))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:54

EAST Search History

L41	1	40 and 21	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:54
L42	14	40 and (cluster$3 with system).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:58
L43	3	42 and @ad<"20000607"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 20:00
L44	37	40 and (cluster$3 with system).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:59
L45	19326421	44and @ad<"20000607"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:59
L46	4	44 and @ad<"20000607"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:59
L47	19	40 and (cluster$3 near system)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 19:59
L48	6	47 and @ad<"20000607"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 20:07

EAST Search History

L49	0	"875271.apnl"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 20:08
L50	2	"875271".apn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 20:14
L51	1	47 and (707/102).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 20:15

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1 Articles on microarray data mining: Towards interactive exploration of gene expression patterns

Daxin Jiang, Jian Pei, Aidong Zhang

December 2003 **ACM SIGKDD Explorations Newsletter**, Volume 5 Issue 2

Publisher: ACM Press

Full text available: pdf(527.68 KB) Additional Information: full citation, abstract, references

Analyzing coherent gene expression patterns is an important task in bioinformatics research and biomedical applications. Recently, various clustering methods have been adapted or proposed to identify clusters of co-expressed genes and recognize coherent expression patterns as the centroids of the clusters. However, the interpretation of co-expressed genes and coherent patterns mainly depends on the domain knowledge, which presents several challenges for coherent pattern mining and cannot be solv ...

2 Convergent algorithms for collaborative filtering

Jon Kleinberg, Mark Sandler

June 2003 **Proceedings of the 4th ACM conference on Electronic commerce EC '03**

Publisher: ACM Press

Full text available: pdf(282.34 KB) Additional Information: full citation, abstract, references, citings, index terms

A collaborative filtering system analyzes data on the past behavior of its users so as to make recommendations --- a canonical example is the recommending of books based on prior purchases. The full potential of collaborative filtering implicitly rests on the premise that, as an increasing amount of data is collected, it should be possible to make increasingly high-quality recommendations. Despite the prevalence of this notion at an informal level, the theoretical study of such convergent algori ...

Keywords: clustering, collaborative filtering, latent class models, mixture model

3 Content-based filtering & collaborative filtering: A nonparametric hierarchical bayesian framework for information filtering

Kai Yu, Volker Tresp, Shipeng Yu

July 2004 **Proceedings of the 27th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '04**

Publisher: ACM Press

Full text available: pdf(425.46 KB) Additional Information: full citation, abstract, references, citings, index terms

Information filtering has made considerable progress in recent years. The predominant approaches are content-based methods and collaborative methods. Researchers have largely concentrated on either of the two approaches since a principled unifying framework is still lacking. This paper suggests that both approaches can be combined under a *hierarchical Bayesian framework*. Individual content-based user profiles are generated and collaboration between various user models is achieved via a co ...

Keywords: collaborative filtering, content-based filtering, dirichlet process, nonparametric bayesian modelling

4 Data clustering: a review

A. K. Jain, M. N. Murty, P. J. Flynn
September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3
Publisher: ACM Press

Full text available: pdf(636.24 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

5 Ranking: Context-sensitive ranking

Rakesh Agrawal, Ralf Rantzau, Evimaria Terzi
June 2006 **Proceedings of the 2006 ACM SIGMOD international conference on Management of data SIGMOD '06**
Publisher: ACM Press

Full text available: pdf(230.69 KB) Additional Information: full citation, abstract, references, index terms

Contextual preferences take the form that item i1 is preferred to item i_2 in the context of X. For example, a preference might state the choice for Nicole Kidman over Penelope Cruz in drama movies, whereas another preference might choose Penelope Cruz over Nicole Kidman in the context of Spanish dramas. Various sources provide preferences independently and thus preferences may contain cycles and contradictions. We reconcile democratically the preferences accumulated from ...

Keywords: preferences, ranking

6 Taxonomy generation for text segments: A practical web-based approach

Shui-Lung Chuang, Lee-Feng Chien
October 2005 **ACM Transactions on Information Systems (TOIS)**, Volume 23 Issue 4
Publisher: ACM Press

Full text available: pdf(875.31 KB) Additional Information: full citation, abstract, references, index terms

It is crucial in many information systems to organize short text segments, such as keywords in documents and queries from users, into a well-formed taxonomy. In this

article, we address the problem of taxonomy generation for diverse text segments with a general and practical approach that uses the Web as an additional knowledge source. Unlike long documents, short text segments typically do not contain enough information to extract reliable features. This work investigates the possibilities of u ...

Keywords: Taxonomy generation, hierarchical clustering, partitioning, search-result snippet, text data mining, text segment

7 Workshop and conference summaries: Advances in model-based software testing (A-MOST)

Siddhartha R. Dalal, Ashish Jain, Jesse Poore
September 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 5
Publisher: ACM Press
Full text available: pdf(166.69 KB) Additional Information: full citation, abstract, index terms

This is a summary of the Advances in Model-Based Software Testing (A-MOST) workshop held on May 15-16, 2005, in St. Louis, Missouri. The workshop had approximately 40 participants. The goals of this workshop were to offer a comprehensive overview of model-based testing to the ICSE community, and bring the researchers and practitioners together to discuss advances, applications, and the complex problems yet to be solved in model-based testing. The workshop was lively and maintained participant in ...

8 Selected Information Retrieval Abstracts

Gerry Salton
November 1990 **ACM SIGIR Forum**, Volume 24 Issue 3
Publisher: ACM Press
Full text available: pdf(844.03 KB) Additional Information: full citation

9 Technical papers: Aiding knowledge capture by searching for extensions of knowledge models

David B. Leake, Ana Maguitman, Thomas Reichherzer, Alberto J. Cañas, Marco Carvalho, Marco Arguedas, Sofia Brenes, Tom Eskridge
October 2003 **Proceedings of the 2nd international conference on Knowledge capture K-CAP '03**
Publisher: ACM Press
Full text available: pdf(458.76 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Electronic concept mapping tools empower experts to play an active role in the knowledge capture process, and provide a medium for building richly connected multimedia *knowledge models*---sets of linked concept maps and resources about a particular domain. Knowledge models are intended to be used as a means for sharing knowledge among humans, not as carefully-crafted knowledge bases upon which machines will be performing inference. However, users must still confront the questions of what t ...

Keywords: case-based reasoning, concept mapping, context, knowledge acquisition tools, knowledge engineering and modeling methodologies, knowledge management environments, retrieval

10 Multimodal interfaces for dynamic interactive maps

Sharon Oviatt
April 1996 **Proceedings of the SIGCHI conference on Human factors in computing**

systems: common ground CHI '96
Publisher: ACM Press
Full text available: pdf(1.36 MB) html(45.03 KB) Additional Information: full citation, references, citings, index terms

Keywords: dynamic interactive maps, multimodal interface design, predictive modeling, robust processing, spoken, pen-based, and multimodal input

11 All things UML: A new approach for visualizing UML class diagrams
Carsten Gutwenger, Michael Jünger, Karsten Klein, Joachim Kupke, Sebastian Leipert, Petra Mutzel
June 2003 **Proceedings of the 2003 ACM symposium on Software visualization SoftVis '03**
Publisher: ACM Press
Full text available: pdf(1.97 MB) Additional Information: full citation, abstract, references, citings, index terms

UML diagrams have become increasingly important in the engineering and reengineering processes for software systems. Of particular interest are UML class diagrams whose purpose is to display class hierarchies (generalizations), associations, aggregations, and compositions in one picture. The combination of hierarchical and non-hierarchical relations poses a special challenge to a graph layout tool. Existing layout tools treat hierarchical and non-hierarchical relations either alike or as separat ...

Keywords: UML Class Diagrams, graph drawing, graph layout, software visualization

12 OPTICS: ordering points to identify the clustering structure
Mihael Ankerst, Markus M. Breunig, Hans-Peter Kriegel, Jörg Sander
June 1999 **ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data SIGMOD '99**, Volume 28 Issue 2
Publisher: ACM Press
Full text available: pdf(1.77 MB) Additional Information: full citation, abstract, references, citings, index terms

Cluster analysis is a primary method for database mining. It is either used as a stand-alone tool to get insight into the distribution of a data set, e.g. to focus further analysis and data processing, or as a preprocessing step for other algorithms operating on the detected clusters. Almost all of the well-known clustering algorithms require input parameters which are hard to determine but have a significant influence on the clustering result. Furthermore, for many real-data sets there doe ...

Keywords: cluster analysis, database mining, visualization

13 Formation and simulation: Modeling the effects of timing parameters on virus propagation
Yang Wang, Chenxi Wang
October 2003 **Proceedings of the 2003 ACM workshop on Rapid malcode WORM '03**
Publisher: ACM Press
Full text available: pdf(243.55 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper, we investigate epidemiological models to reason about computer viral propagation. We extend the classical homogeneous models to incorporate two timing

parameters: Infection delay and user vigilance. We show that these timing parameters greatly influence the propagation of viral epidemics, and that the explicit treatment of these parameters gives rise to a more realistic and accurate propagation model. We validate the new model with simulation analysis.

Keywords: anti-virus, computer virus, epidemiology, security

14 Clustering: Efficiently clustering transactional data with weighted coverage density

Hua Yan, Keke Chen, Ling Liu
November 2006 **Proceedings of the 15th ACM international conference on Information and knowledge management CIKM '06**
Publisher: ACM Press
Full text available: pdf(367.51 KB) Additional Information: full citation, abstract, references, index terms

It is widely recognized that developing efficient and fully automated algorithms for clustering large transactional datasets is a challenging problem. In this paper, we propose a fast, memory-efficient, and scalable clustering algorithm for analyzing transactional data. Our approach has three unique features. First, we use the concept of Weighted Coverage Density as a categorical similarity measure for efficient clustering of transactional datasets. The concept of weighted coverage density is in ...

Keywords: AMI, LISR, SCALE, weighted coverage density

15 iVIBRATE: Interactive visualization-based framework for clustering large datasets

Keke Chen, Ling Liu
April 2006 **ACM Transactions on Information Systems (TOIS)**, Volume 24 Issue 2
Publisher: ACM Press
Full text available: pdf(4.48 MB) Additional Information: full citation, abstract, references, index terms

With continued advances in communication network technology and sensing technology, there is astounding growth in the amount of data produced and made available through cyberspace. Efficient and high-quality clustering of large datasets continues to be one of the most important problems in large-scale data analysis. A commonly used methodology for cluster analysis on large datasets is the three-phase framework of sampling/summarization, iterative cluster analysis, and disk-labeling. There are th ...

Keywords: Clustering, interactive visualization, labeling, large datasets, performance

16 Learning user preferences for sets of objects

Marie desJardins, Eric Eaton, Kiri L. Wagstaff
June 2006 **Proceedings of the 23rd international conference on Machine learning ICML '06**
Publisher: ACM Press
Full text available: pdf(299.32 KB) Additional Information: full citation, abstract, references

Most work on preference learning has focused on pairwise preferences or rankings over individual items. In this paper, we present a method for learning preferences over *sets* of items. Our learning method takes as input a collection of positive examples---that is, one or more sets that have been identified by a user as desirable. Kernel density estimation is used to estimate the value function for individual items, and the desired set diversity is estimated from the average set diversity o ...

17 Agent based modeling: development support for agents: Vigilance performance

modeled as a complex adaptive system with listener event graph objects (LEGOS)
Joerg C. G. Wellbrink, Arnold H. Buss
December 2004 **Proceedings of the 36th conference on Winter simulation WSC '04**
Publisher: Winter Simulation Conference
Full text available: pdf(329.97 KB) Additional Information: full citation, abstract, references

There has been an increasing need to incorporate human performance in simulation models. Situations in which human performance is subject to degradation over time, such as vigilance tasks, are not represented. This article describes a computational model for vigilance performance embedded in a new cognitive framework that utilizes recent advances in system neuroscience, evolutionary psychology and complexity theory. The Reduced Human Performance Model (RHPM) captures human errors in monitoring t ...

18 Trust, recommendations, evidence, and other collaborative know-how (TRECK): A fuzzy model for reasoning about reputation in web services
Wanita Sherchan, Seng W. Loke, Shonali Krishnaswamy
April 2006 **Proceedings of the 2006 ACM symposium on Applied computing SAC '06**
Publisher: ACM Press
Full text available: pdf(185.79 KB) Additional Information: full citation, abstract, references, index terms

Reputation systems are typically based on ratings given by the users. When there are no mechanisms in place to detect collusion and deception, combining user testimonies as such to form a provider's reputation may not give an accurate assessment, especially if the context of the ratings is not known. Moreover, such systems are vulnerable to manipulations by malicious users. Hence it becomes essential to establish the validity of the ratings prior to using them in formulating reputation based on ...

Keywords: rationale inference, reputation, web services

19 Supervised adaptive resonance networks
R. S. Baxter
May 1991 **Proceedings of the conference on Analysis of neural network applications ANNA '91**
Publisher: ACM Press
Full text available: pdf(1.44 MB) Additional Information: full citation, references, index terms

20 Mouse taming: Zliding: fluid zooming and sliding for high precision parameter manipulation
Gonzalo Ramos, Ravin Balakrishnan
October 2005 **Proceedings of the 18th annual ACM symposium on User interface software and technology UIST '05**
Publisher: ACM Press
Full text available: pdf(834.26 KB) Additional Information: full citation, abstract, references, citings, index terms

High precision parameter manipulation tasks typically require adjustment of the scale of manipulation in addition to the parameter itself. This paper introduces the notion of Zoom Sliding, or Zliding, for fluid integrated manipulation of scale (zooming) via pressure input while parameter manipulation within that scale is achieved via x-y cursor movement (sliding). We also present the Zlider (Figure 1), a widget that instantiates the Zliding concept. We experimentally evaluate three different inp ...

Keywords: input, multi-scale navigation, pen-based interfaces, pressure widgets

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